

SEQUENCE LISTING

<110> Leukotech A/S

<120> Pro-inflammatory and anti-inflammatory antibodies against the heparin binding protein (HBP)

<130> P181 PC00

<160> 589

<170> PatentIn version 3.1

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<213> Homo sapiens

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Gly Val Ser Thr Val Val Leu Gly Ala Tyr Asp Leu Arg Arg Arg Glu
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Tyr Asp Pro Gln Gln Asn Leu Asn Asp Leu Met Leu Leu Gln Leu Asp
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Gln Asn Ala Thr Val Glu Ala Gly Thr Arg Cys Gln Val Ala Gly Trp
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Thr Gly Val Leu Thr Arg Arg Gly Gly Ile Cys Asn Gly Asp Gly Gly
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Pro Asn Asn Val

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Asn Asn Val Cys

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Val Leu Thr Arg

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Leu Val Cys Glu

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Val Cys Glu Gly

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Cys Glu Gly Leu

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Glu Gly Leu Ala

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Gly Leu Ala His

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Leu Ala His Gly

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Ala His Gly Val

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His Gly Val Ala

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Gly Val Ala Ser

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Val Ala Ser Phe

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Ala Ser Phe Ser

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Ser Phe Ser Leu

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Phe Ser Leu Gly
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Gly Pro Asp Phe
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Asp Phe Phe Thr
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Phe Phe Thr Arg
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Phe Thr Arg Val

1

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Thr Arg Val Ala

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Arg Val Ala Leu

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Val Ala Leu Phe

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Ala Leu Phe Arg

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Phe Arg Asp Trp
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Arg Asp Trp Ile
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Asp Trp Ile Asp
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Val Leu Asn Asn
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Leu Asn Asn Pro
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Pro Gly Pro Ala

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Gly Arg Lys Ala
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Gly Arg Arg Ala

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Pro Gln Glu Phe
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Glu Phe Pro Phe
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Phe Pro Phe Leu
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Pro Phe Leu Ala

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Gln Gly Arg Pro

1

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Gly Arg Pro Phe

1

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Arg Pro Phe Cys

1

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Pro Phe Cys Ala

1

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Phe Cys Ala Gly

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Cys Ala Gly Ala

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<400> 239

Ala Gly Ala Leu

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Gly Ala Leu Val

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Ala Leu Val His

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Leu Val His Pro

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Val His Pro Arg

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His Pro Arg Phe

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Ser Ile Gln Lys
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Arg Phe Val Leu
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Phe Val Leu Thr
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Val Leu Thr Ala
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Cys Phe Arg Gly
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Phe Arg Gly Lys
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Arg Gly Lys Asn

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Gly Lys Asn Ser

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Lys Asn Ser Gly

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Asn Ser Gly Ser

1

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Ser Gly Ser Ala
1

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Gly Ser Ala Ser
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Ser Ala Ser Val
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Ala Ser Val Val
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Ser Val Val Leu
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Asp Leu Arg Gln
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Leu Arg Gln Gln
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Arg Gln Gln Glu
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Gln Gln Glu Gln
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Gln Glu Gln Ser
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Glu Gln Ser Arg
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Ile Gln Lys Gln
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Phe Ser Ile Arg
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<210> 270

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Ser Ile Arg Ser
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Ile Arg Ser Ile
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<210> 272
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Arg Ser Ile Ser
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Ser Ile Ser Gln
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Ile Ser Gln Asn

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Ser Gln Asn Gly

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Gln Asn Gly Tyr

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Tyr Asp Pro Arg

1

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Asp Pro Arg Gln

1

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Pro Arg Gln Asn

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<400> 280

Arg Gln Asn Leu

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<400> 281

Leu Asn Asp Val

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Asn Asp Val Leu
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Asp Val Leu Leu
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Val Leu Leu Leu
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Leu Leu Leu Gln
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Glu Ala Arg Leu
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Ala Arg Leu Thr.
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<210> 291

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Thr Pro Ser Val
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<210> 292
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Pro Ser Val Ala
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Ser Val Ala Leu
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Val Ala Leu Val
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Ala Leu Val Pro

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Leu Val Pro Leu

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<400> 297

Val Pro Leu Pro

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<210> 298

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Pro Leu Pro Pro

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Leu Pro Pro Gln
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Pro Pro Gln Asn
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<210> 301

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Pro Gln Asn Ala
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Ala Gly Thr Asn
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Gly Thr Asn Cys
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Thr Asn Cys Gln
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Asn Cys Gln Val
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Gly Trp Gly Thr
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Trp Gly Thr Gln
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Gly Thr Gln Arg
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<210> 309
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Thr Gln Arg Leu
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Gln Arg Leu Arg
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<210> 311
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Arg Leu Arg Arg
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Leu Arg Arg Leu
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Arg Arg Leu Phe
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Arg Leu Phe Ser
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Leu Phe Ser Arg
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Phe Ser Arg Phe
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Phe Pro Arg Val
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Pro Arg Val Leu
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Arg Val Leu Asn
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Val Leu Asn Val

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Leu Asn Val Thr

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<400> 322

Thr Val Thr Ser

1

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<400> 323

Val Thr Ser Asn

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Thr Ser Asn Pro
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Ser Asn Pro Cys
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Asn Pro Cys Leu
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Pro Cys Leu Pro
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Cys Leu Pro Arg
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Leu Pro Arg Asp
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Pro Arg Asp Met
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Arg Asp Met Cys
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Asp Met Cys Ile
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Met Cys Ile Gly
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Cys Ile Gly Val
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Ile Gly Val Phe
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Gly Val Phe Ser
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Val Phe Ser Arg
1

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Phe Ser Arg Arg
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Ser Arg Arg Gly
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Arg Arg Gly Arg
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Arg Gly Arg Ile
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Gly Arg Ile Ser
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Arg Ile Ser Gln
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Ile Ser Gln Gly
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Ser Gln Gly Asp

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<400> 346

Gln Gly Asp Arg

1

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Gly Asp Arg Gly

1

<210> 348
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Asp Arg Gly Thr

1

<210> 349
<211> 4
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<400> 349

Arg Gly Thr Pro

1

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<400> 350

Leu Val Cys Asn
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Val Cys Asn Gly
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Cys Asn Gly Leu
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<210> 353
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<400> 353

Asn Gly Leu Ala
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<210> 354
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<400> 354

Gly Leu Ala Gln

1

<210> 355

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Leu Ala Gln Gly

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<210> 356

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<400> 356

Ala Gln Gly Val

1

<210> 357

<211> 4

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<400> 357

Gln Gly Val Ala

1

<210> 358

<211> 4

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<400> 358

Ala Ser Phe Leu

1

<210> 359

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<400> 359

Ser Phe Leu Arg

1

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Phe Leu Arg Arg

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Gln Lys Gln Gly

1

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Arg Arg Arg Phe
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<223> Peptide fragment: amino acid residues 192-195 of pHBP

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Arg Arg Phe Arg
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Arg Phe Arg Arg
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Phe Arg Arg Ser
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Arg Arg Ser Ser
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Arg Ser Ser Gly
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Ser Ser Gly Phe
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Ser Gly Phe Phe
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Gly Phe Phe Thr
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Lys Gln Gly Arg
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Leu Phe Arg Asn
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Phe Arg Asn Trp
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<210> 374
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Arg Asn Trp Ile
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Asn Trp Ile Asp

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<210> 376

<211> 4

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<223> Peptide fragment: amino acid residues 210-213 of pHBP

<400> 376

Trp Ile Asp Ser

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<210> 377

<211> 4

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<223> Peptide fragment: amino acid residues 211-214 of pHBP

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Ile Asp Ser Val

1

<210> 378

<211> 4

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<223> Peptide fragment: amino acid residues 212-214 of pHBP

<400> 378

Asp Ser Val Leu

1

<210> 379

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<223> Peptide fragment: amino acid residues 213-216 of pHBP

<400> 379

Ser Val Leu Asn

1

<210> 380

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<223> Peptide fragment: amino acid residues 216-219 of pHBP

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Asn Asn Pro Pro

1

<210> 381

<211> 4

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Gly Gly Arg Arg

1

<210> 382

<211> 4

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Gly Arg Arg Ala

1

<210> 383

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Arg Arg Ala Arg
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<210> 384
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Arg Ala Arg Pro
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Ala Arg Pro His
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<210> 386
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Arg Pro His Ala
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<210> 387
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Pro His Ala Trp
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His Ala Trp Pro
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Ala Trp Pro Phe
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Trp Pro Phe Met
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Pro Phe Met Val
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Phe Met Val Ser
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Met Val Ser Leu
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Val Ser Leu Gln
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Ser Leu Gln Leu
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Leu Gln Leu Arg
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Gln Leu Arg Gly
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Leu Arg Gly Gly
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Arg Gly Gly His
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Gly His Phe Cys

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Phe Cys Gly Ala

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Cys Gly Ala Thr

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<210> 404

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Gly Ala Thr Leu

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Ala Thr Leu Ile

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Thr Leu Ile Ala

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Leu Ile Ala Pro

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Ile Ala Pro Asn

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Ala Pro Asn Phe

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Pro Asn Phe Val

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Phe Val Met Ser

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<210> 413
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Val Met Ser Ala
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Ala His Cys Val

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His Cys Val Ala

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Cys Val Ala Asn

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Val Ala Asn Val

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Ala Asn Val Asn

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Asn Val Asn Val

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Val Asn Val Arg

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Val Arg Ala Val

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Arg Ala Val Arg
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Val Arg Val Val
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Arg Val Val Leu
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Leu Gly Ala His
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Gly Ala His Asn
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Ala His Asn Leu
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His Asn Leu Ser
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Asn Leu Ser Arg
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Leu Ser Arg Arg
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Ser Arg Arg Glu
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Arg Arg Glu Pro
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Arg Glu Pro Thr
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Glu Pro Thr Arg

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Pro Thr Arg Gln

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Thr Arg Gln Val

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Arg Gln Val Phe

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Gln Val Phe Ala

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Val Phe Ala Val

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<223> Peptide fragment: amino acid residues 70-73 of hNLE

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Phe Ala Val Gln

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Ala Val Gln Arg

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Val Gln Arg Ile

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Gln Arg Ile Phe
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Arg Ile Phe Glu
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Ile Phe Glu Asp
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Phe Glu Asp Gly
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Glu Asp Gly Tyr
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Asp Gly Tyr Asp
1

<210> 453
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Tyr Asp Pro Val
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Asp Pro Val Asn
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<210> 455
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<223> Peptide fragment: amino acid residues 82-84 of hNLE

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Pro Val Asn Leu

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<210> 456

<211> 4

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<223> Peptide fragment: amino acid residues 83-86 of hNLE

<400> 456

Val Asn Leu Leu

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<210> 457

<211> 4

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<223> Peptide fragment: amino acid residues 84-87 of hNLE

<400> 457

Asn Leu Leu Asn

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<223> Peptide fragment: amino acid residues 85-88 of hNLE

<400> 458

Leu Leu Asn Asp

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Leu Asn Asp Ile

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<223> Peptide fragment: amino acid residues 87-90 of hNLE

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Asn Asp Ile Val

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<210> 461

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Asp Ile Val Ile

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<210> 462

<211> 4

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<400> 462

Ile Val Ile Leu

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<210> 463

<211> 4

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<400> 463

Val Ile Leu Gln

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<210> 464

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Ile Leu Gln Leu

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<210> 465

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Leu Gln Leu Asn

1

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Gln Leu Asn Gly

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Leu Asn Gly Ser

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Asn Gly Ser Ala
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<210> 469
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Gly Ser Ala Thr
1

<210> 470
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<400> 470

Ser Ala Thr Ile
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<210> 471
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<400> 471

Ala Thr Ile Asn
1

<210> 472

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Thr Ile Asn Pro
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<210> 473
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<400> 473

Ile Asn Pro Ser
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<400> 474

Asn Pro Ser Val
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<210> 475
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<220>
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<400> 475

Pro Ser Val Ala
1

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<400> 476

Ser Val Ala Leu
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<210> 477
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Val Ala Leu Val
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<210> 478
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<400> 478

Ala Leu Val Pro
1

<210> 479
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<400> 479

Leu Val Pro Leu
1

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<400> 480

Val Pro Leu Pro

1

<210> 481

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Pro Leu Pro Ala

1

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Pro Arg Phe Val Leu Thr Ala Ala Ser Cys Phe Arg Gly Lys Asn Ser
35 40 45

Gly Ser Ala Ser Val Val Leu Gly Ala Tyr Asp Leu Arg Gln Gln Glu
50 55 60

Gln Ser Arg Gln Thr Phe Ser Ile Arg Ser Ile Ser Gln Asn Gly Tyr

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Asp Pro Arg Gln Asn Leu Asn Asp Val Leu Leu Leu Gln Leu Asp Arg			85		90		95
Glu Ala Arg Leu Thr Pro Ser Val Ala Leu Val Pro Leu Pro Pro Gln			100		105		110
Asn Ala Thr Val Glu Ala Gly Thr Asn Cys Gln Val Glu Ala Gly Trp			115		120		125
Gly Thr Gln Arg Leu Arg Arg Leu Phe Ser Arg Phe Pro Arg Val Leu			130		135		140
Asn Val Thr Val Thr Ser Asn Pro Cys Leu Pro Arg Asp Met Cys Ile			145		150		155
Gly Val Phe Ser Arg Arg Gly Arg Ile Ser Gln Gly Asp Arg Gly Thr			165		170		175
Pro Leu Val Cys Asn Gly Leu Ala Gln Gly Val Ala Ser Phe Leu Arg			180		185		190
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Gly Arg Arg Ala Arg Pro His Ala Trp Pro Phe Met Val Ser Leu Gln			35		40		45
Leu Arg Gly Gly His Phe Cys Gly Ala Thr Leu Ile Ala Pro Asn Phe							

143

50

55

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Val Met Ser Ala Ala His Cys Val Ala Asn Val Asn Val Arg Ala Val
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Arg Val Val Leu Gly Ala His Asn Leu Ser Arg Arg Glu Pro Thr Arg
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Gln Val Phe Ala Val Gln Arg Ile Phe Glu Asn Gly Tyr Asp Pro Val
100 105 110

Asn Leu Leu Asn Asp Ile Val Ile Leu Gln Leu Asn Gly Ser Ala Thr
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Ile Asn Ala Asn Val Gln Val Ala Gln Leu Pro Ala Gln Gly Arg Arg
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Leu Gly Asn Gly Val Gln Cys Leu Ala Met Gly Trp Gly Leu Leu Gly
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Arg Asn Arg Gly Ile Ala Ser Val Leu Gln Glu Leu Asn Val Thr Val
165 170 175

Val Thr Ser Leu Cys Arg Arg Ser Asn Val Cys Thr Leu Val Arg Gly
180 185 190

Arg Gln Ala Gly Val Cys Phe Gly Asp Ser Gly Ser Pro Leu Val Cys
195 200 205

Asn Gly Leu Ile His Gly Ile Ala Ser Phe Val Arg Gly Gly Cys Ala
210 215 220

Ser Gly Leu Tyr Pro Asp Ala Phe Ala Pro Val Ala Gln Phe Val Asn
225 230 235 240

Trp Ile Asp Ser Ile Ile Gln Arg Ser Glu Asp Asn Pro Cys Pro His
245 250 255

Pro Arg Asp Pro Asp Pro Ala Ser Arg Thr His
260 265